US007662000B2

(12) **United States Patent**
Hou et al.

(10) **Patent No.: US 7,662,000 B2**
(45) **Date of Patent: Feb. 16, 2010**

(54) **ELECTRIC CONNECTOR**

(75) Inventors: **Pin-Yuan Hou**, Hsin-Tien (TW); **Liang-Chun Yeh**, Hsin-Tien (TW); **Hui Wang**, Hsin-Tien (TW)

(73) Assignee: **Advanced Connectek Inc.**, Hsin-Tien, Taipei Hsien (TW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 28 days.

(21) Appl. No.: **12/170,089**

(22) Filed: **Jul. 9, 2008**

(65) **Prior Publication Data**

US 2009/0023347 A1 Jan. 22, 2009

(30) **Foreign Application Priority Data**

Jul. 20, 2007 (TW) ..... 96211898 U

(51) **Int. Cl.**
H01R 13/24 (2006.01)

(52) **U.S. Cl.** **439/824**; 439/700

(58) **Field of Classification Search** 439/824, 439/700, 219, 482

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,935,906	B2	8/2005	Orihara	
7,077,709	B1 *	7/2006	Shin-Ting	439/700
7,217,142	B1 *	5/2007	Wu	439/79
7,435,109	B1 *	10/2008	Sugiura	439/83
2005/0026510	A1 *	2/2005	Orihara	439/700

* cited by examiner

Primary Examiner—Hien Vu
(74) *Attorney, Agent, or Firm*—patenttm.us

(57) **ABSTRACT**

An electric connector has an insulative housing, a plurality of probe contacts and a plurality of terminals. The insulative housing has a plurality of mounting holes and a plurality of mounting slots. The mounting slots communicate respectively with and are perpendicularly to the mounting slots. The probe contacts are mounted respectively in the mounting holes. The terminals are mounted respectively in the mounting slots and respectively hold the probe contacts and each terminal has a fastening portion. The fastening portion is perpendicularly to and securely holds one probe contact. The terminal with the fastening portion is mounted perpendicularly on the probe contact instead of sliding longitudinally along the tubular body. Therefore, the terminal would not wear the probe contact.

9 Claims, 10 Drawing Sheets